

ABSTRACT OF THE DISCLOSURE

A 3-dimensional image acquisition apparatus acquires images to be used for 3-dimensionally reconstructing an object by picking up the object by 5 a camera twice or more in an image acquisition set including picking up at least once the object carrying a pattern projected onto it by a projection light source. The apparatus comprises a light projection information memory configured to store information on 10 projection of light including information on the time for projecting light for the purpose of projecting the pattern in the image acquisition set, an image acquisition progress information memory configured to store information on the progress of image acquisition 15 in the image acquisition set, and a controller configured to control the projection of light by the projection light source and the picking up by the camera on the basis of the stored information on projection of light and the stored information on the 20 progress.